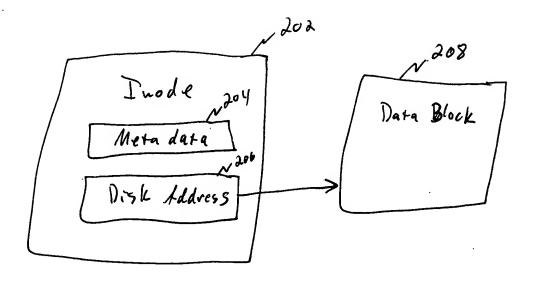
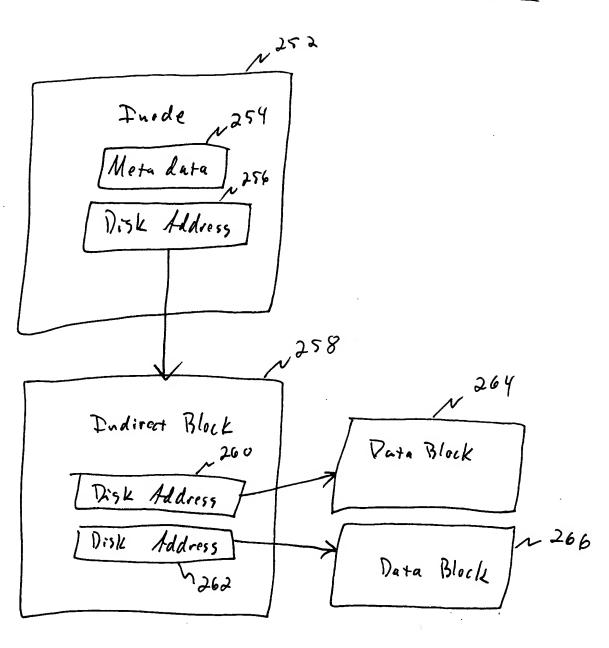
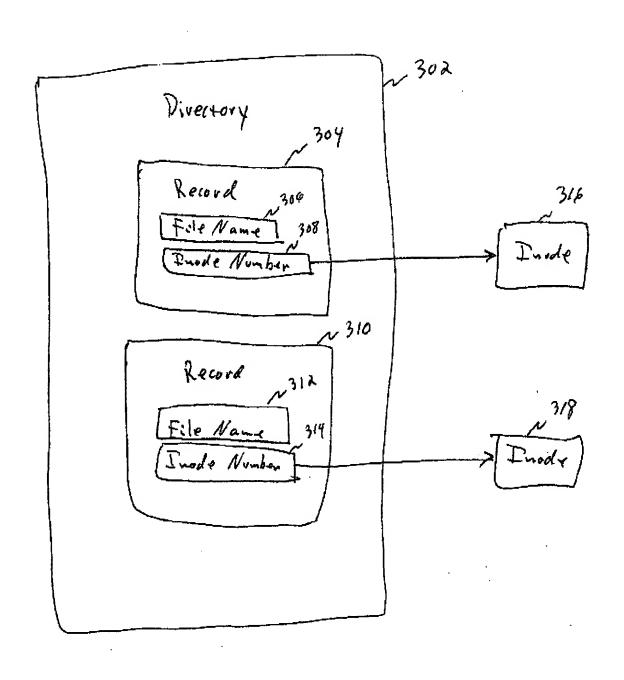


F16.1

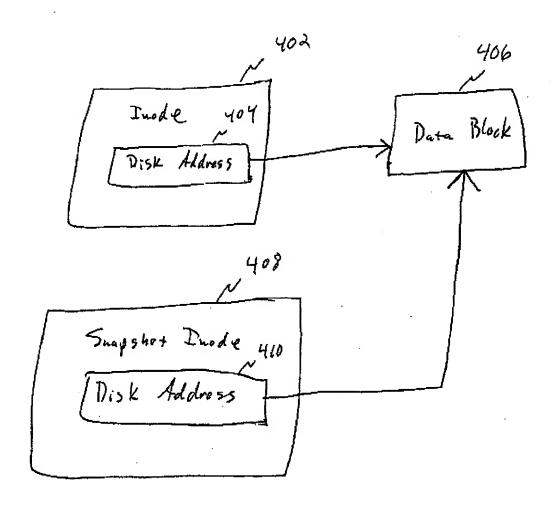




F16. 2B



F16.3



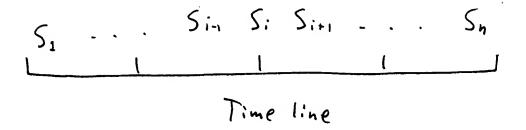
F16.4

500 Start Snapshot of source is taken 510 Snapshot updated as a vesult of 506 update of source Retrieve snapshot intermation

F14.5

600 Start Suspend file. System updates Write cached updates to disk Sparse shadow inode file generated Resume file system updates Stop

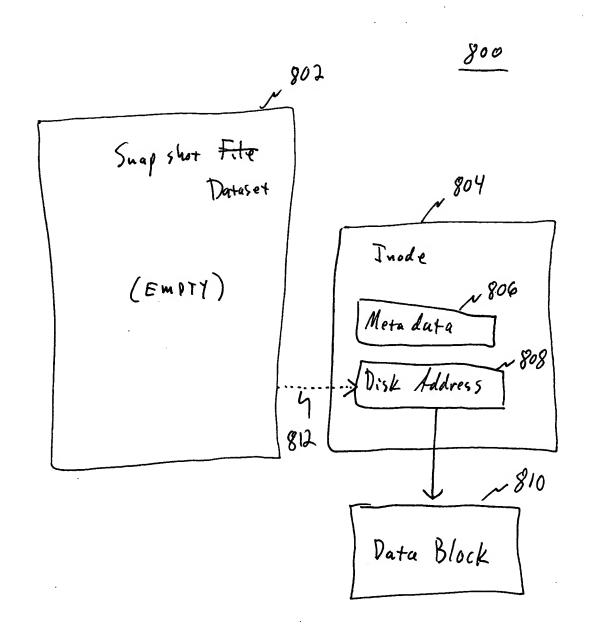
F1G. 6A



F19. 6B

720
Start 2724
Resolve implied references in current snapshot for Lata being modified in current snapshot
Copy data associated with implied references into current snapshot
Resolve implied refferences in next oldest snapshor for data being modified 1730
Copy data ussociated with implied references into next oldest snapshot
Modify data in corrent snapshot 732
5+0p 734

F14. 7B



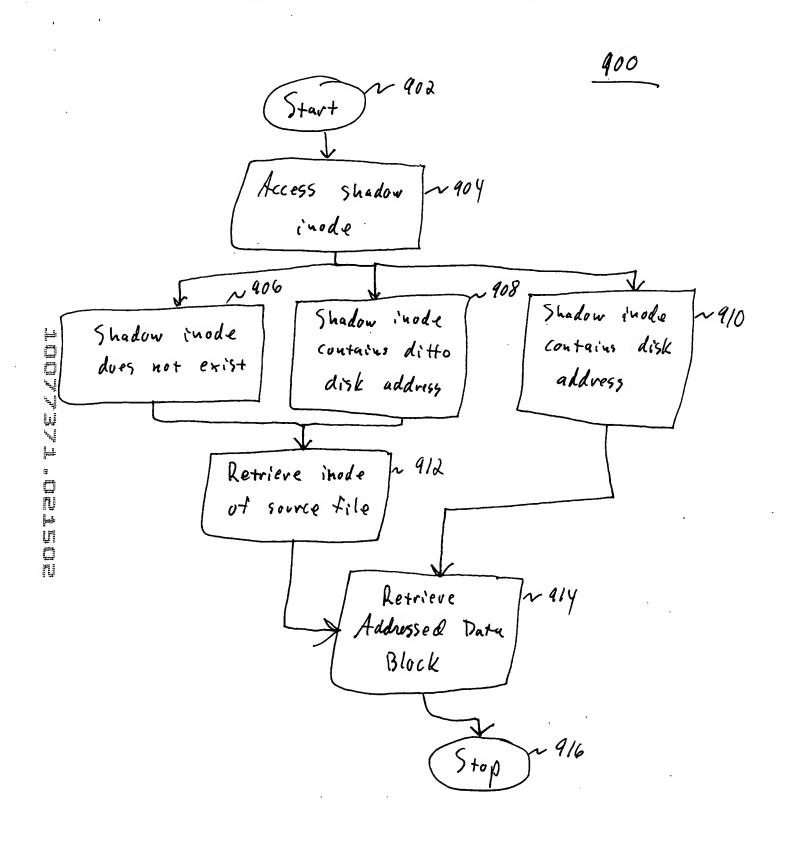
F19.84

F1G. 8B

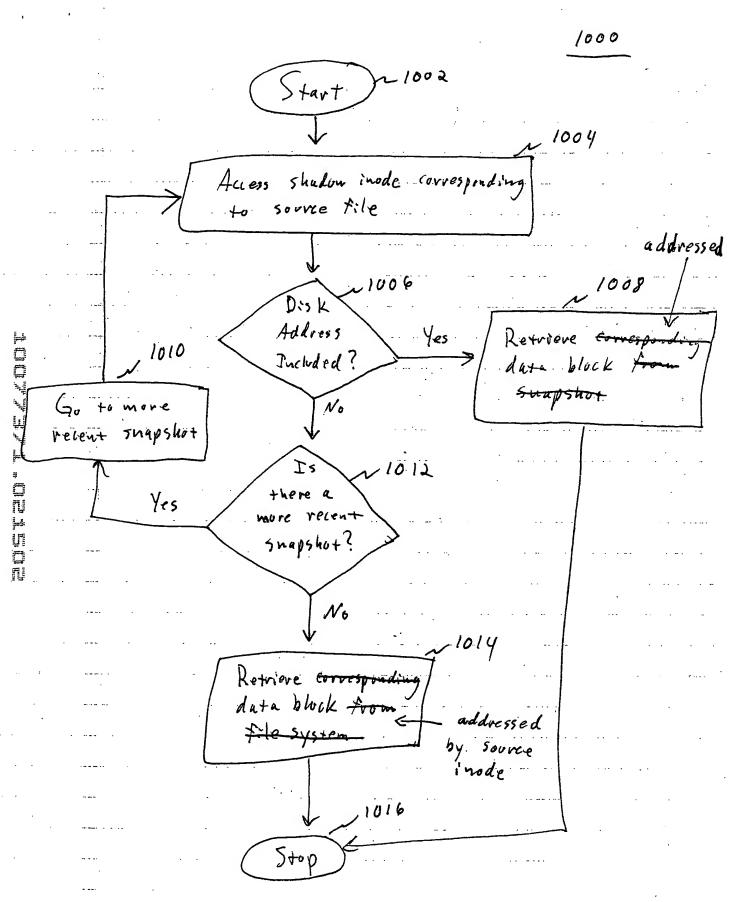
83.0

४०२ Snapshot Fite Duteset 822 Shakow Inode Meta data 826. Disk Address ~ 842 Indirect Block 844 Data Block Address 8 5.0 Disk Address Data Block

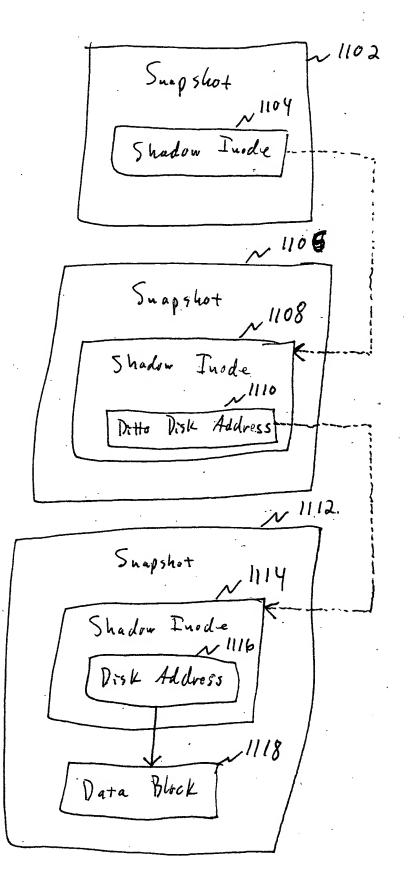
F16. 8D



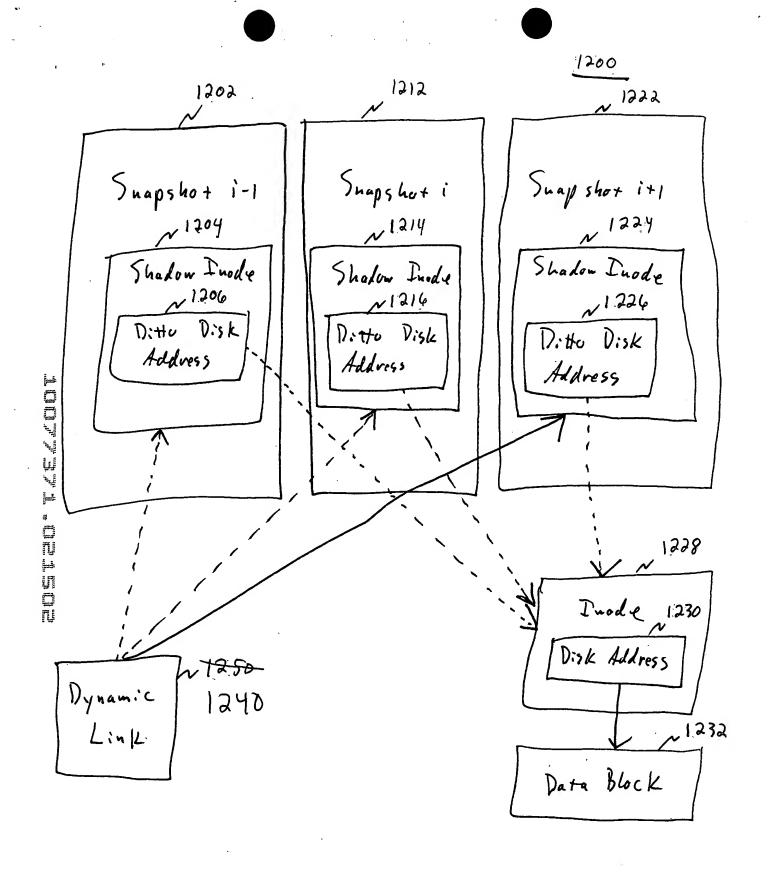
F16,9



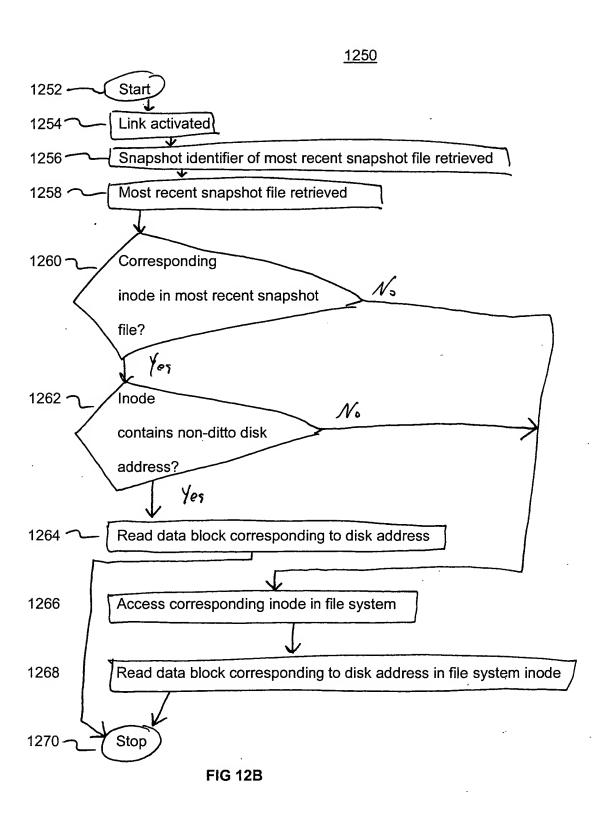
F19.10

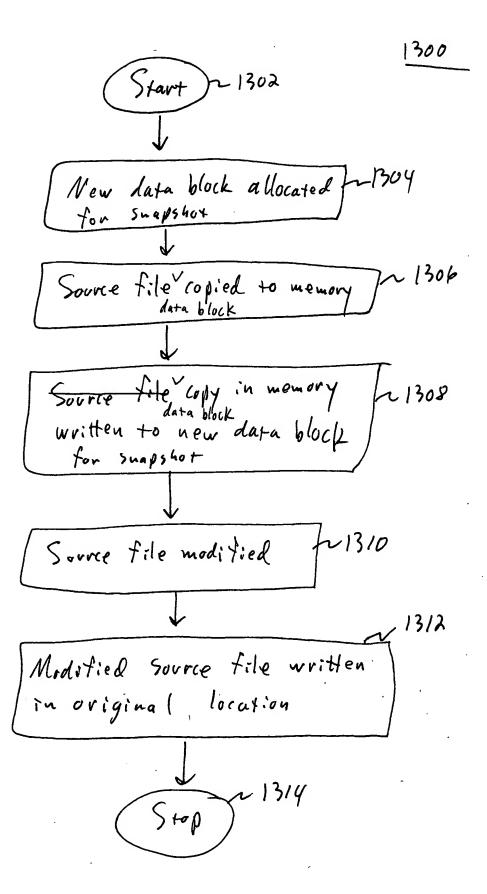


FCG. 11

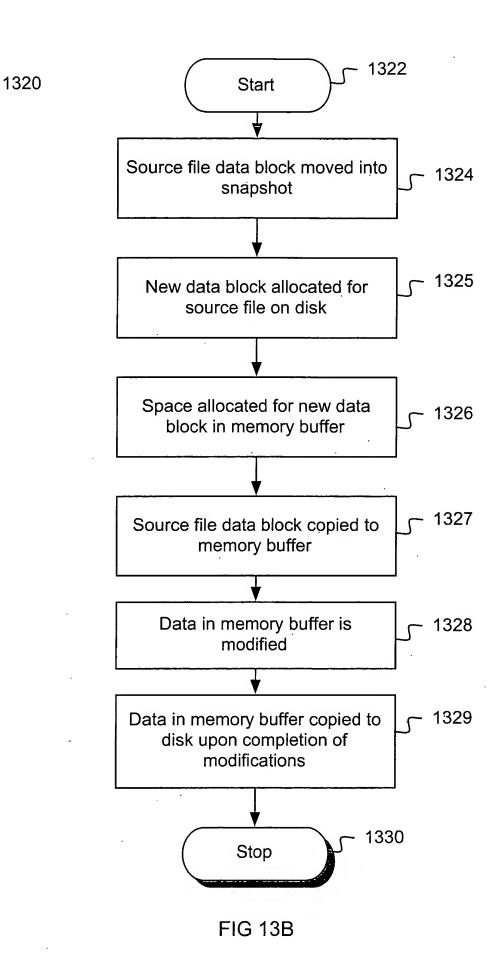


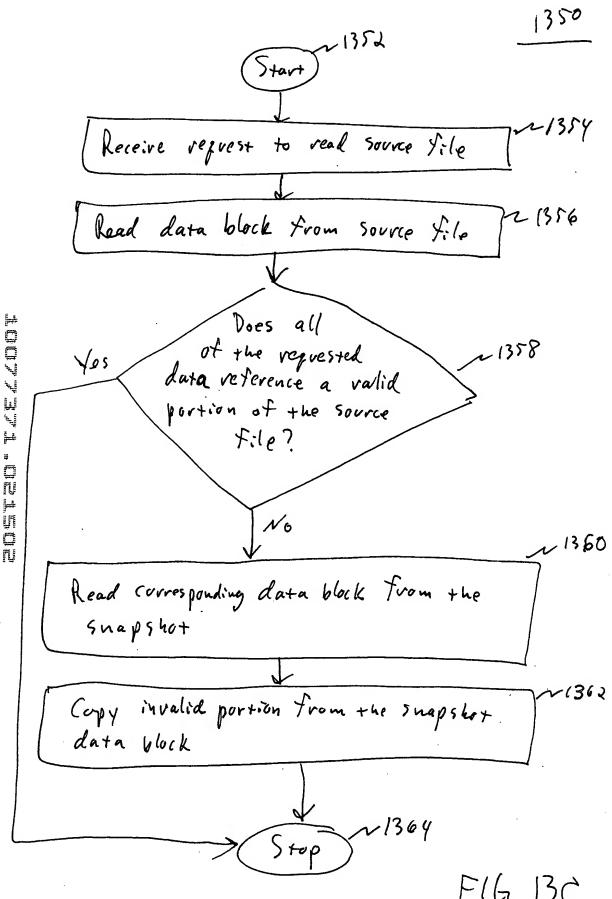
F16. 12A



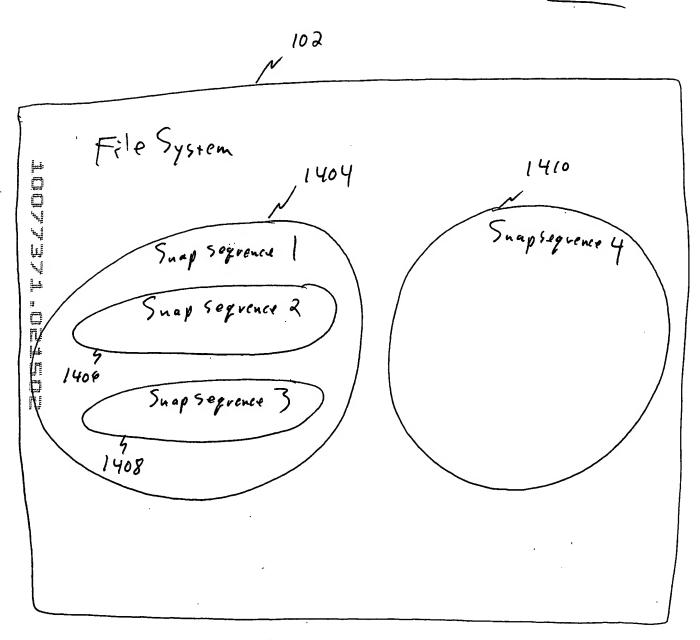


F16, 134





F16. 13C



F19, 14A

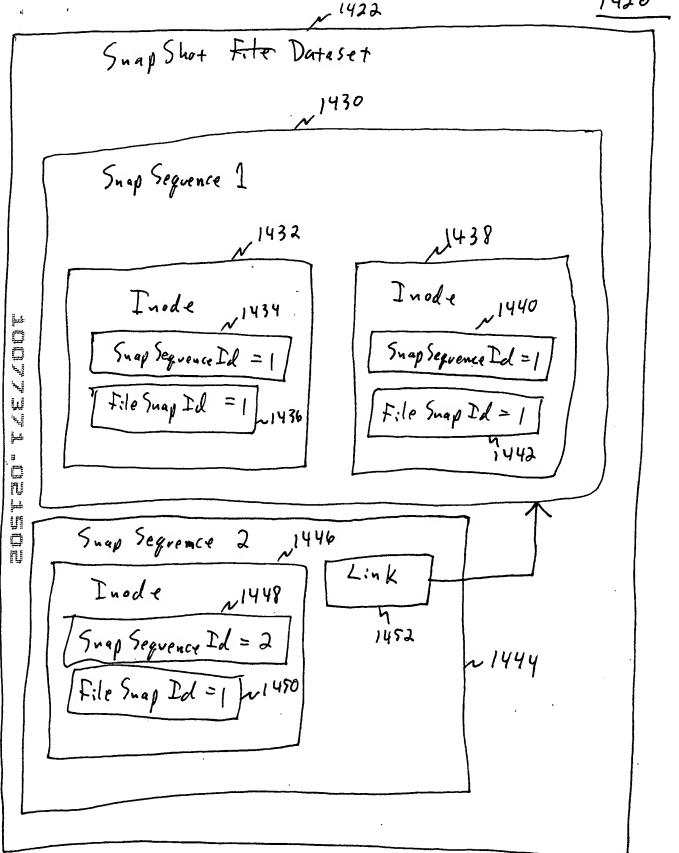
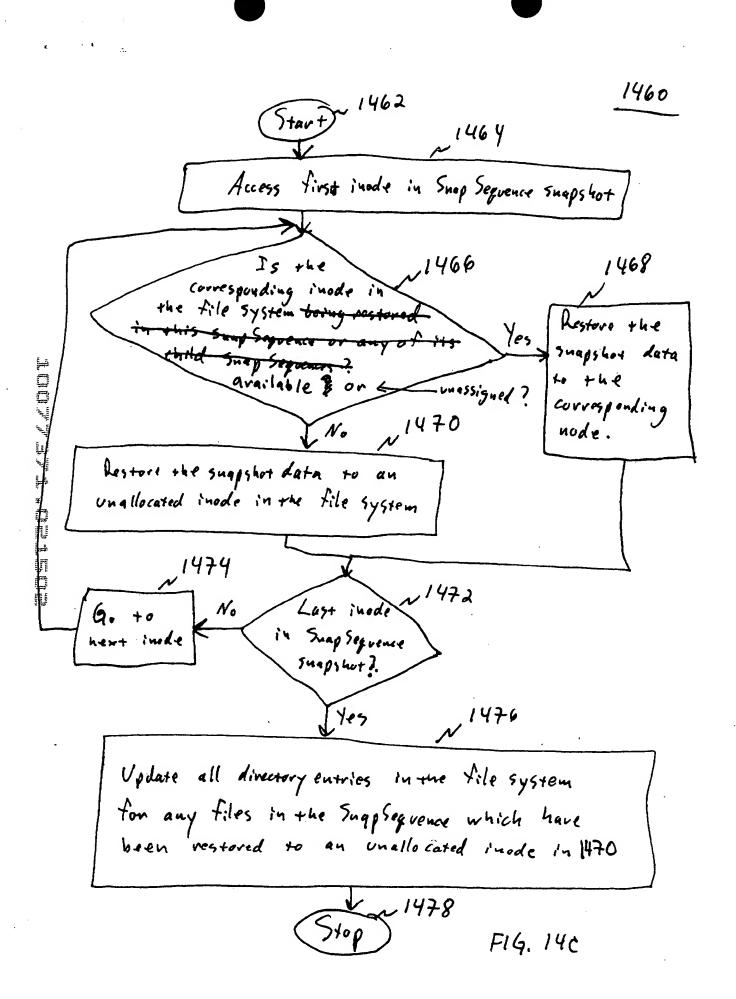
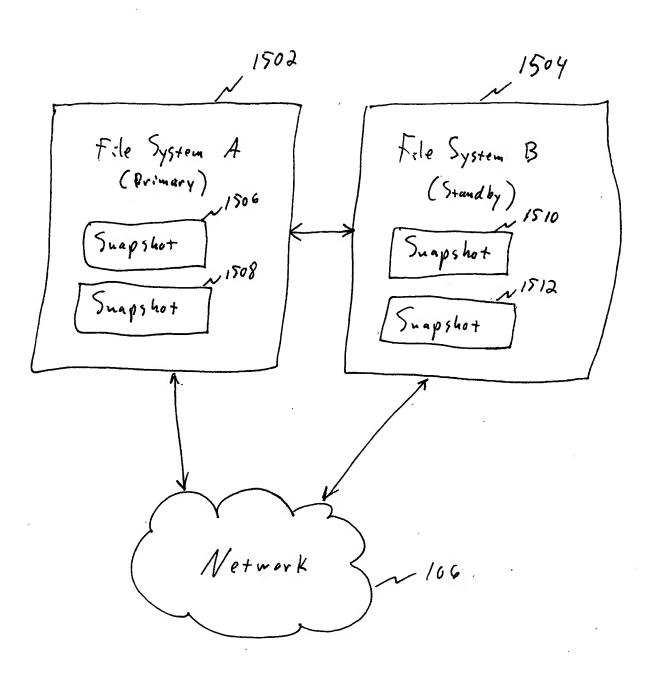
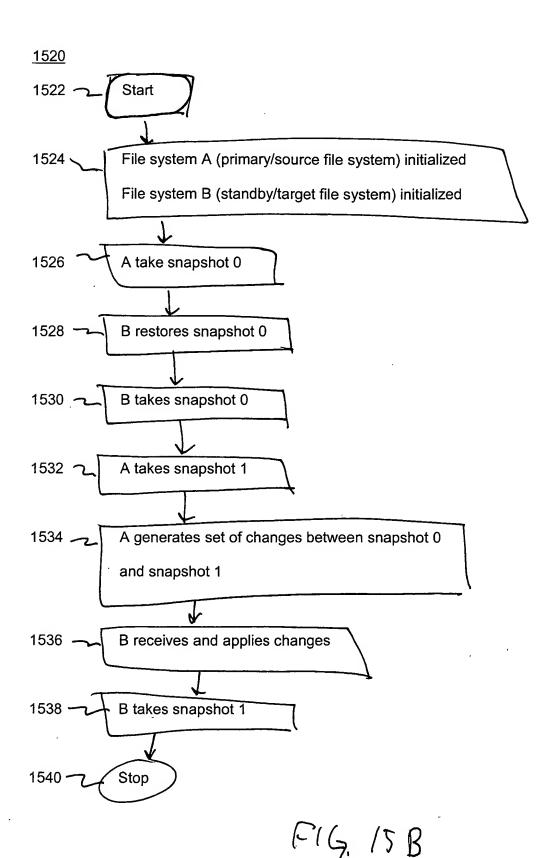


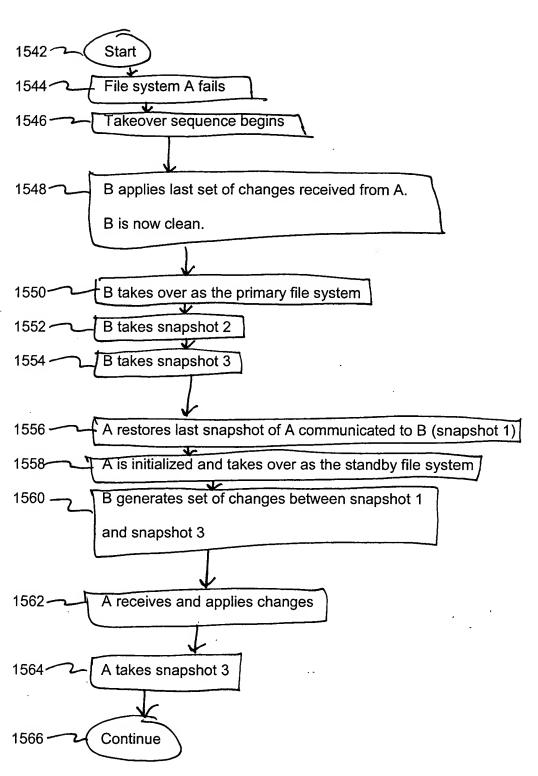
FIG. 14B



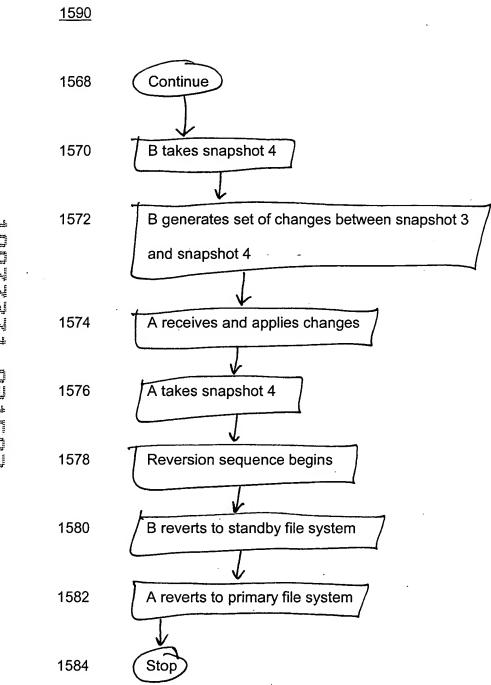


F1G. 15A





F14.152



F14. 15D

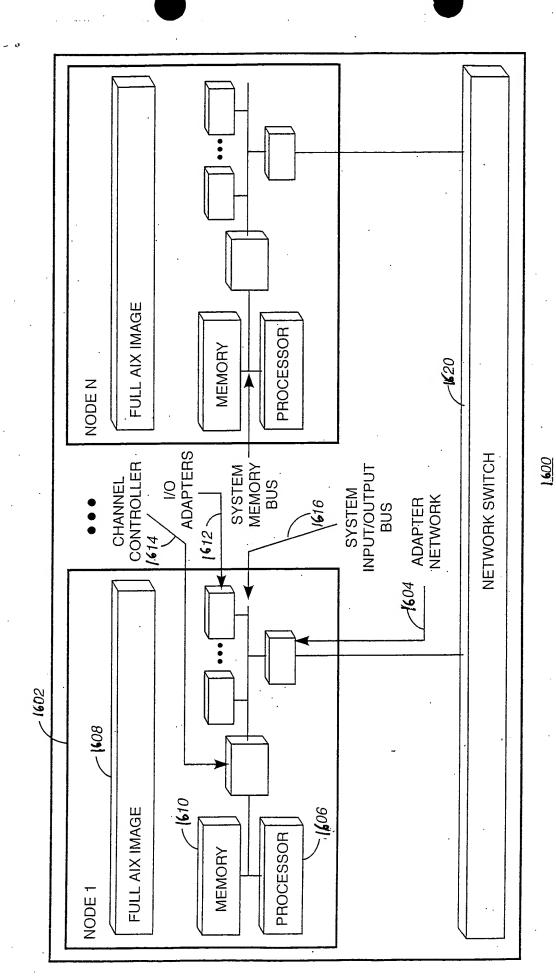


FIG.|6

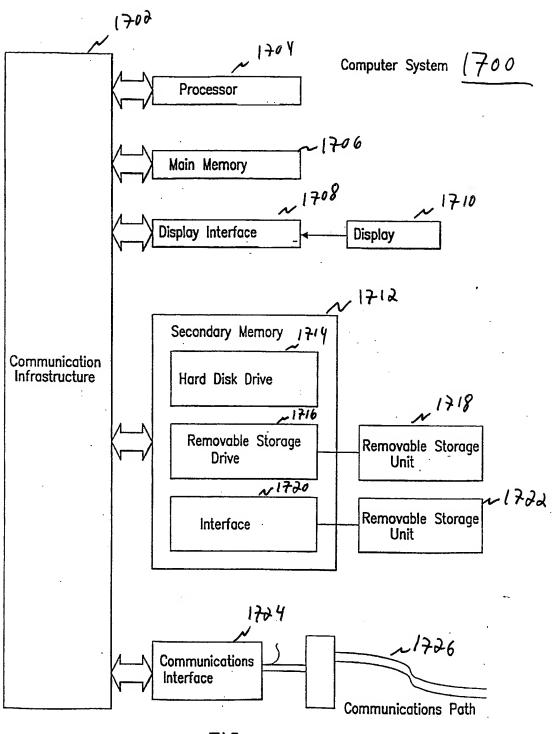


FIG. 17